Atty. Dckt. No.: 5659-03400

## Amendments to the Claims:

The following lists all claims and their status:

1-4170. (cancelled)

4171. (currently amended): A mixture produced from a portion of a hydrocarbon containing

formation, the mixture comprising:

an olefin content of less than about 10% by weight; and

an average carbon number less than about 35.

4172. (currently amended): The mixture of claim 4171, wherein the mixture has further

comprising an average carbon number less than about 30.

4173. (currently amended): The mixture of claim 4171, wherein the mixture has further

comprising an average carbon number less than about 25.

4174. (currently amended): The mixture of claim 4171, further comprising:

<u>a</u> non-condensable hydrocarbons component comprising hydrocarbons having carbon

numbers of less than 5; and

wherein a weight ratio of the hydrocarbons having carbon numbers from 2 through 4, to

methane, to methane in the mixture is greater than approximately 1.

4175. (original): The mixture of claim 4171, further comprising condensable hydrocarbons,

wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable

hydrocarbons is nitrogen, wherein less than about 1 % by weight, when calculated on an atomic

basis, of the condensable hydrocarbons is oxygen, and wherein less than about 1 % by weight,

when calculated on an atomic basis, of the condensable hydrocarbons is sulfur.

3

4176. (currently amended): The mixture of claim 4171, further comprising ammonia, wherein greater than about 0.05 % by weight of the produced mixture is ammonia.

4177. (currently amended): The mixture of claim 4171, further comprising condensable hydrocarbons, wherein an olefin content of the condensable hydrocarbons is greater than about 0.1 % by weight of the condensable hydrocarbons, and wherein the olefin content of the condensable hydrocarbons is less than about 15 % by weight of the condensable hydrocarbons.

4178. (original): The mixture of claim 4171, further comprising condensable hydrocarbons, wherein less than about 15 % by weight of the condensable hydrocarbons have a carbon number greater than about 25.

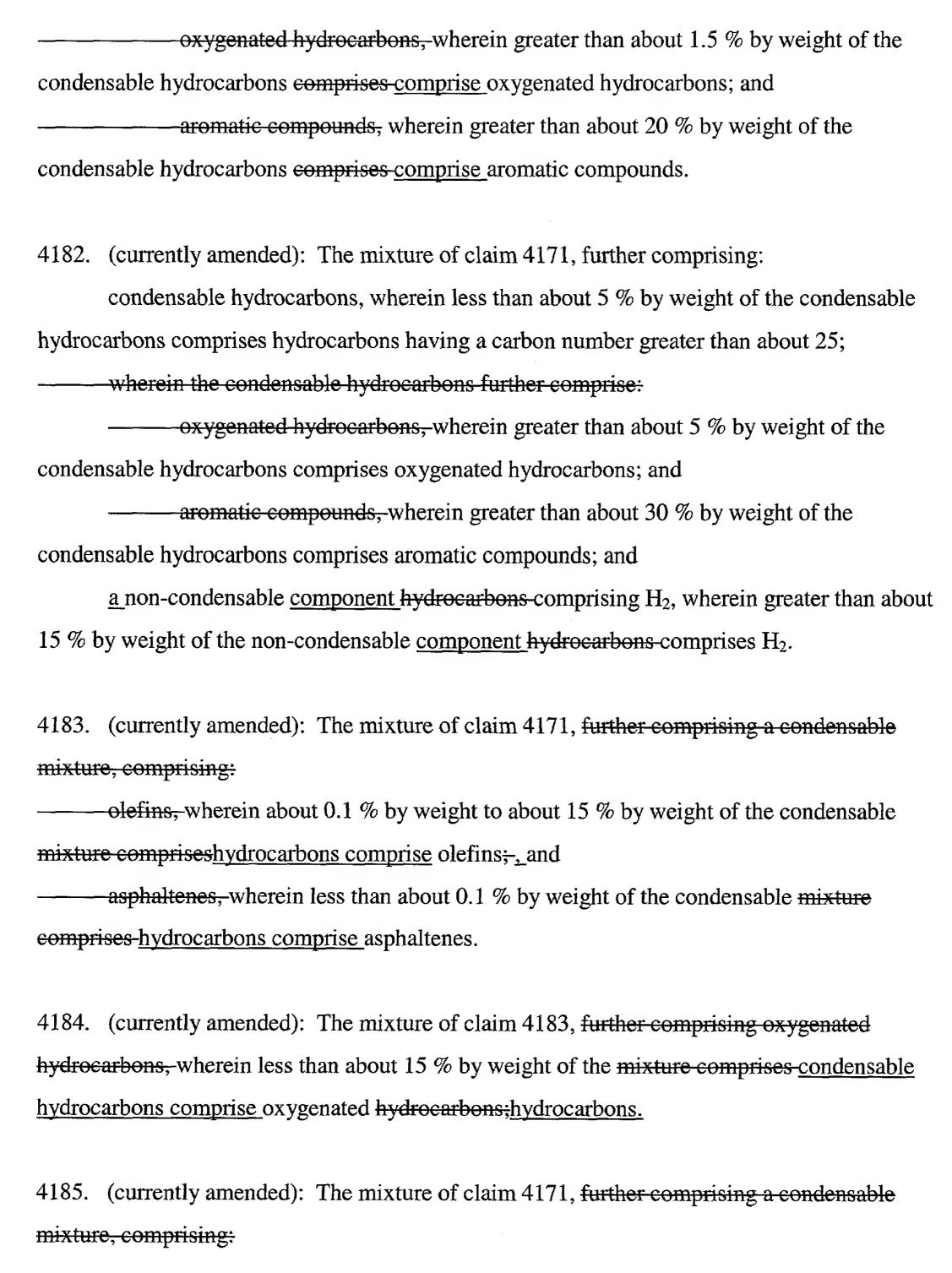
4179. (currently amended): The condensable hydrocarbonsmixture of claim 4178, wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is nitrogen, wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is oxygen, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is sulfur.

4180. (previously presented): The mixture of claim 4171, further comprising condensable hydrocarbons, wherein greater than about 20 % by weight of the condensable hydrocarbons are aromatic compounds.

4181. (currently amended): The mixture of claim 4171, further comprising:

a non-condensable hydrocarbons component comprising hydrocarbons having carbon numbers of less than about 5, wherein a weight ratio of the hydrocarbons having carbon number from 2 through 4, to methane, to methane in the mixture non-condensable component is greater than approximately 1;

wherein the non-condensable hydrocarbons further comprise H<sub>2</sub>, wherein greater than about 15 % by weight of the non-condensable component hydrocarbons comprises H<sub>2</sub>; and condensable hydrocarbons, eomprising:



—— olefins, wherein about 0.1 % by weight to about 2 % by weight of the condensable mixture comprises hydrocarbons comprise olefins; and, and

— multi-ring aromatics, wherein less than about 2 % by weight of the condensable mixture comprises hydrocarbons comprise multi-ring aromatics with more than two rings.

4186. (currently amended): The mixture of claim 41844185, further comprising oxygenated hydrocarbons, wherein greater than about 25 % by weight of the mixture comprises condensable hydrocarbons comprise oxygenated hydrocarbons.

4187. (currently amended): The mixture of claim 4171, further comprising:

a non-condensable hydrocarbons component, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, wherein greater than about 10 % by weight of the non-condensable component hydrocarbons-comprises H<sub>2</sub>, and-; wherein a weight ratio of hydrocarbons having greater than about 2 carbon atoms and less than 5 carbon atoms to methane is greater than about 0.4; and

ammonia, wherein greater than about 0.5~% by weight of the mixture comprises ammonia; and

—— hydrocarbons, wherein a weight ratio of hydrocarbons having greater than about 2 carbon atoms, to methane, is greater than about 0.4.

4188-4284 (cancelled)

4285. (currently amended): A mixture produced from a portion of a hydrocarbon containing formation, comprising:

condensable hydrocarbons, wherein less than about 15 weight % of the condensable hydrocarbons have a carbon number greater than 25; and

wherein the condensable hydrocarbons comprise oxygenated hydrocarbons, and wherein greater than about 5 % by weight of the condensable hydrocarbons comprises oxygenated hydrocarbons.

4286. (currently amended): The mixture of claim 4285, further comprising non-condensable hydrocarbons, wherein the non-condensable hydrocarbons comprise hydrocarbons having carbon numbers of less than 5, and wherein a weight ratio of hydrocarbons having carbon numbers from 2 through 4, to methane, to methane is greater than approximately 1.

4287. (original): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise olefins, and wherein about 0.1 % by weight to about 15 % by weight of the condensable hydrocarbons are olefins.

4288. (original): The mixture of claim 4285, further comprising non-condensable hydrocarbons, wherein a molar ratio of ethene to ethane in the non-condensable hydrocarbons ranges from about 0.001 to about 0.15.

4289. (previously presented): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise nitrogen containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is nitrogen.

4290. (previously presented): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise oxygen containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is oxygen.

4291. (previously presented): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise sulfur containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is sulfur.

4292. (original): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise oxygen containing compounds, wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons comprise oxygen containing compounds, and wherein the oxygen containing compounds comprise phenols.

4293. (original): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise aromatic compounds, and wherein greater than about 20 % by weight of the condensable hydrocarbons are aromatic compounds.

4294. (original): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise multi-ring aromatics, and wherein less than about 5 % by weight of the condensable hydrocarbons comprises multi-ring aromatics with more than two rings.

4295. (original): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise asphaltenes, and wherein less than about 0.3 % by weight of the condensable hydrocarbons are asphaltenes.

4296. (original): The mixture of claim 4285, wherein the condensable hydrocarbons further comprise cycloalkanes, and wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons are cycloalkanes.

4297. (currently amended): The mixture of claim 4285, further comprising a non-condensable hydrocarbons component, wherein the non-condensable hydrocarbons comprisecomponent comprises hydrogen, and wherein the hydrogen is greater than about 10 % by volume of the non-condensable hydrocarbons component at 25 °C and one atmosphere absolute pressure, and wherein the hydrogen is less than about 80 % by volume of the non-condensable hydrocarbons component at 25 °C and one atmosphere absolute pressure.

4298. (currently amended): The mixture of claim 4285, further comprising ammonia, and wherein greater than about 0.05 % by weight of the <del>produced</del>-mixture is ammonia.

4299. (original): The mixture of claim 4285, further comprising ammonia, and wherein the ammonia is used to produce fertilizer.

Atty. Dckt. No.: 5659-03400

4300. (currently amended): The mixture of claim 4285, wherein the condensable hydrocarbons further comprises comprise olefins, and wherein less than about 10 % by weight of the condensable hydrocarbons comprises olefins.

4301. (currently amended): The mixture of claim 4285, wherein the condensable hydrocarbons further comprises comprise olefins, and wherein about 0.1 % to about 5 % by weight of the condensable hydrocarbons comprises olefins.

4302. (currently amended): The mixture of claim 4285, wherein the condensable hydrocarbons further comprises comprise olefins, and wherein about 0.1 % to about 2 % by weight of the condensable hydrocarbons comprises olefins.

4303. (currently amended): The mixture of claim 4285, wherein the condensable hydrocarbons further comprises comprise oxygenated hydrocarbons, and wherein greater than about 5 % by weight of the condensable hydrocarbons comprises the oxygenated hydrocarbon hydrocarbons.

4304. (currently amended): The mixture of claim 4285, further comprising a non-condensable component hydrocarbons, and wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, wherein greater than about 5 % by weight of the non-condensable componenthydrocarbons comprises H<sub>2</sub>.

4305. (currently amended): The mixture of claim 4285, further comprising a non-condensable component hydrocarbons, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, and wherein greater than about 15 % by weight of the non-condensable componenthydrocarbons comprises  $H_2$ .

4306. (currently amended): The mixture of claim 4285, wherein a weight ratio of hydrocarbons having greater than about 2 carbon atoms, to methane, to methane is greater than about 0.3.

4307. (currently amended): A mixture produced from a portion of a hydrocarbon containing formation, comprising:

condensable hydrocarbons, wherein less than about 15 % by weight of the condensable hydrocarbons have a carbon number greater than about 25;

wherein less than about 1 % by weight of the condensable hydrocarbons, when calculated on an atomic basis, is nitrogen;

wherein less than about 1 % by weight of the condensable hydrocarbons, when calculated on an atomic basis, is oxygen; and

wherein less than about 1 % by weight of the condensable hydrocarbons, when calculated on an atomic basis, is sulfur.

4308. (currently amended): The mixture of claim 4307, further comprising non-condensable hydrocarbons, wherein the non-condensable eomponent hydrocarbons eomprises comprise hydrocarbons having carbon numbers of less than 5, and wherein a weight ratio of hydrocarbons having carbon numbers from 2 through 4, to methane, to methane is greater than approximately 1.

4309. (original): The mixture of claim 4307, wherein the condensable hydrocarbons further comprise olefins, and wherein about 0.1 % by weight to about 15 % by weight of the condensable hydrocarbons are olefins.

4310. (original): The mixture of claim 4307, further comprising non-condensable hydrocarbons, and wherein a molar ratio of ethene to ethane in the non-condensable hydrocarbons ranges from about 0.001 to about 0.15.

4311. (currently amended): The mixture of claim 4307, wherein the condensable hydrocarbons further comprise oxygen containing compounds, wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons comprise oxygen containing compounds, and wherein the oxygen containing compounds comprise phenols.

Atty. Dckt. No.: 5659-03400

4312. (original): The mixture of claim 4307, wherein the condensable hydrocarbons further comprise aromatic compounds, and wherein greater than about 20 % by weight of the condensable hydrocarbons are aromatic compounds.

- 4313. (original): The mixture of claim 4307, wherein the condensable hydrocarbons further comprise multi-ring aromatics, and wherein less than about 5 % by weight of the condensable hydrocarbons comprises multi-ring aromatics with more than two rings.
- 4314. (original): The mixture of claim 4307, wherein the condensable hydrocarbons further comprise asphaltenes, and wherein less than about 0.3 % by weight of the condensable hydrocarbons are asphaltenes.
- 4315. (original): The mixture of claim 4307, wherein the condensable hydrocarbons further comprise cycloalkanes, and wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons are cycloalkanes.
- 4316. (currently amended): The mixture of claim 4307, further comprising <u>a</u> non-condensable <u>componenthydrocarbons</u>, <u>and-wherein</u> the non-condensable <u>hydrocarbons component comprises</u> <u>eomprise-hydrogen</u>, and wherein greater than about 10 % by volume <u>at 25 °C and one</u> <u>atmosphere absolute pressure and less than about 80 % by volume at 25 °C and one atmosphere absolute pressure of the non-condensable component comprises hydrogen.</u>
- 4317. (currently amended): The mixture of claim 4307, further comprising ammonia, and wherein greater than about 0.05 % by weight of the produced mixture is ammonia.
- 4318. (original): The mixture of claim 4307, further comprising ammonia, and wherein the ammonia is used to produce fertilizer.

Atty. Dckt. No.: 5659-03400

4319. (currently amended): The mixture of claim 4307, wherein the condensable component hydrocarbons further comprises comprise olefins, and wherein about 0.1 % to about 5 % by

weight of the condensable <del>component</del> <u>hydrocarbons</u> comprises olefins.

4320. (currently amended): The mixture of claim 4307, wherein the condensable

component hydrocarbons further comprises comprise olefins, and wherein about 0.1 % to about

2.5 % by weight of the condensable component hydrocarbons comprises olefins.

4321. (original): The mixture of claim 4307, wherein the condensable hydrocarbons further

comprise oxygenated hydrocarbons, and wherein greater than about 5 % by weight of the

condensable hydrocarbons comprises oxygenated hydrocarbons.

4322. (currently amended): The mixture of claim 4307, further comprising a non-condensable

component hydrocarbons, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, and wherein

greater than about 5 % by weight of the non-condensable componenthydrocarbons comprises H<sub>2</sub>.

4323. (currently amended): The mixture of claim 4307, further-comprising a non-condensable

componenthydrocarbons, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, and wherein

greater than about 15 % by weight of the non-condensable component hydrocarbons-comprises

 $H_2$ .

4324. (currently amended): The mixture of claim 4307, further-comprising non-condensable

hydrocarbons, wherein a weight ratio of compounds within the non-condensable hydrocarbons

having greater than about 2 carbon atoms to methane, to methane, is greater than about 0.3.

4325. (currently amended): A mixture produced from a portion of a hydrocarbon containing

formation, comprising:

condensable hydrocarbons, wherein less than about 15 % by weight of the condensable

hydrocarbons have a carbon number greater than 20; and

12

wherein the condensable hydrocarbons comprise olefins, wherein an olefin content of the condensable component hydrocarbons is less than about 10 % by weight of the condensable component hydrocarbons.

- 4326. (currently amended): The mixture of claim 4325, further-comprising non-condensable hydrocarbons, wherein the non-condensable hydrocarbons comprise hydrocarbons having carbon numbers of less than 5, and wherein a weight ratio of hydrocarbons having carbon numbers from 2 through 4, to methane, to methane is greater than approximately 1.
- 4327. (original): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise olefins, and wherein about 0.1 % by weight to about 15 % by weight of the condensable hydrocarbons are olefins.
- 4328. (currently amended): The mixture of claim 4325, further-comprising non-condensable hydrocarbons, and wherein a molar ratio of ethene to ethane in the non-condensable hydrocarbons ranges from about 0.001 to about 0.15.
- 4329. (previously presented): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise nitrogen containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is nitrogen.
- 4330. (previously presented): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise oxygen containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is oxygen.
- 4331. (previously presented): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise sulfur containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is sulfur.

4332. (currently amended): The mixture of claim 4325, wherein the condensable hydrocarbons, wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons comprise oxygen containing compounds, and wherein the oxygen containing compounds comprise phenols.

4333. (original): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise aromatic compounds, and wherein greater than about 20 % by weight of the condensable hydrocarbons are aromatic compounds.

4334. (original): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise multi-ring aromatics, and wherein less than about 5 % by weight of the condensable hydrocarbons comprises multi-ring aromatics with more than two rings.

4335. (original): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise asphaltenes, and wherein less than about 0.3 % by weight of the condensable hydrocarbons are asphaltenes.

4336. (original): The mixture of claim 4325, wherein the condensable hydrocarbons further comprise cycloalkanes, and wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons are cycloalkanes.

4337. (currently amended): The mixture of claim 4325, <u>further-comprising a\_non-condensable componenthydrocarbons</u>, wherein the non-condensable <u>hydrocarbons component comprises</u> hydrogen, and wherein the hydrogen is about 10 % by volume <u>at 25 °C and one atmosphere absolute pressure</u> to about 80 % by volume <u>at 25 °C and one atmosphere absolute pressure</u> of the non-condensable <u>componenthydrocarbons</u>.

4338. (currently amended): The mixture of claim 4325, further comprising ammonia, wherein greater than about 0.05 % by weight of the produced-mixture is ammonia.

Atty. Dckt. No.: 5659-03400

4339. (original): The mixture of claim 4325, further comprising ammonia, and wherein the ammonia is used to produce fertilizer.

4340. (currently amended): The mixture of claim 4325, wherein about 0.1 % to about 5 % by weight of the condensable component comprises hydrocarbons comprise olefins.

4341. (currently amended): The mixture of claim 4325, wherein about 0.1 % to about 2 % by weight of the condensable component comprises hydrocarbons comprise olefins.

4342. (currently amended): The mixture of claim 4325, wherein the condensable component further comprises hydrocarbons comprise oxygenated hydrocarbons, and wherein greater than about 1.5 % by weight of the condensable component comprises hydrocarbons comprise oxygenated hydrocarbons.

4343. (currently amended): The mixture of claim 4325, wherein the condensable component further comprises hydrocarbons comprise oxygenated hydrocarbons, and wherein greater than about 25 % by weight of the condensable component comprises hydrocarbons comprise oxygenated hydrocarbons.

4344. (currently amended): The mixture of claim 4325, further comprising a non-condensable hydrocarbons component, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, and wherein greater than about 5 % by weight of the non-condensable hydrocarbons component comprises H<sub>2</sub>.

4345. (currently amended): The mixture of claim 4325, further comprising a non-condensable hydrocarbons component, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, and wherein greater than about 15 % by weight of the non-condensable hydrocarbons component comprises  $H_2$ .

4346. (currently amended): The mixture of claim 4325, further comprising non-condensable hydrocarbons, wherein the non-condensable hydrocarbons comprise hydrocarbons having carbon

numbers of less than 5, and wherein a weight ratio of hydrocarbons having carbon numbers from 2 through 4, to methane, to methane is greater than approximately 0.3.

4347. (currently amended): A mixture produced from a portion of a hydrocarbon containing formation, comprising:

condensable hydrocarbons, wherein less than about 5 % by weight of the condensable hydrocarbons comprises hydrocarbons having a carbon number greater than about 25; and

wherein the condensable hydrocarbons further comprise aromatic compounds, wherein more than about 20 % by weight of the condensable hydrocarbons comprises aromatic compounds.

4348. (currently amended): The mixture of claim 4347, further-comprising non-condensable hydrocarbons, wherein the non-condensable hydrocarbons comprise hydrocarbons having carbon numbers of less than 5, and wherein a weight ratio of hydrocarbons having carbon numbers from 2 through 4, to methane, to methane is greater than approximately 1.

4349. (original): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise olefins, and wherein about 0.1 % by weight to about 15 % by weight of the condensable hydrocarbons are olefins.

4350. (original): The mixture of claim 4347, further comprising non-condensable hydrocarbons, wherein a molar ratio of ethene to ethane in the non-condensable hydrocarbons ranges from about 0.001 to about 0.15.

4351. (previously presented): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise nitrogen containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is nitrogen.

- 4352. (previously presented): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise oxygen containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is oxygen.
- 4353. (previously presented): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise sulfur containing compounds, and wherein less than about 1 % by weight, when calculated on an atomic basis, of the condensable hydrocarbons is sulfur.
- 4354. (original): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise oxygen containing compounds, wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons comprise oxygen containing compounds, and wherein the oxygen containing compounds comprise phenols.
- 4355. (original): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise multi-ring aromatics, and wherein less than about 5 % by weight of the condensable hydrocarbons comprises multi-ring aromatics with more than two rings.
- 4356. (original): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise asphaltenes, and wherein less than about 0.3 % by weight of the condensable hydrocarbons are asphaltenes.
- 4357. (original): The mixture of claim 4347, wherein the condensable hydrocarbons comprise cycloalkanes, and wherein about 5 % by weight to about 30 % by weight of the condensable hydrocarbons are cycloalkanes.
- 4358. (currently amended): The mixture of claim 4347, further comprising <u>a</u> non-condensable <u>componenthydrocarbons</u>, wherein the non-condensable hydrocarbons comprise hydrogen, and wherein the hydrogen (H<sub>2</sub>) is greater than about 10 % by volume <u>at 25 °C and one atmosphere</u> <u>absolute pressure</u> and less than about 80 % by volume <u>at 25 °C and one atmosphere absolute</u> <u>pressure</u> of the non-condensable <u>componenthydrocarbons</u>.

4359. (currently amended): The mixture of claim 4347, further comprising ammonia, and wherein greater than about 0.05 % by weight of the <del>produced</del> mixture is ammonia.

4360. (original): The mixture of claim 4347, further comprising ammonia, and wherein the ammonia is used to produce fertilizer.

4361. (currently amended): The mixture of claim 4347, wherein the condensable hydrocarbons further comprise olefins, and wherein about 0.1 % to about 5 % by weight of the condensable hydrocarbons comprises olefins.

4362. (currently amended): The mixture of claim 4347, wherein the condensable hydrocarbons further comprises comprise olefins, and wherein about 0.1 % to about 2 % by weight of the condensable hydrocarbons comprises olefins.

4363. (currently amended): The mixture of claim 4347, wherein the condensable hydrocarbons further comprises comprise multi-ring aromatic compounds, and wherein less than about 2 % by weight of the condensable hydrocarbons comprises multi-ring aromatic compounds.

4364. (currently amended): The mixture of claim 4347, wherein the condensable hydrocarbons comprises comprise oxygenated hydrocarbons, and wherein greater than about 1.5 % by weight of the condensable hydrocarbons comprises oxygenated hydrocarbons.

4365. (currently amended): The mixture of claim 4347, wherein the condensable hydrocarbons comprises comprise oxygenated hydrocarbons, and wherein greater than about 25 % by weight of the condensable component hydrocarbons comprises oxygenated hydrocarbons.

4366. (currently amended): The mixture of claim 4347, further comprising a non-condensable component hydrocarbons, wherein the non-condensable hydrocarbons comprise H<sub>2</sub>, and wherein greater than about 5 % by weight of the non-condensable component hydrocarbons comprises H<sub>2</sub>.

Atty. Dckt. No.: 5659-03400

4367. (currently amended): The mixture of claim 4347, further-comprising a non-condensable

hydrocarbons component, wherein the non-condensable hydrocarbons comprise H2, and wherein

greater than about 15 % by weight of the non-condensable hydrocarbons component comprises

 $H_2$ .

4368. (currently amended): The mixture of claim 4347, further-comprising non-condensable

hydrocarbons, wherein the non-condensable hydrocarbons comprises comprise hydrocarbons

having carbon numbers of less than 5, and wherein a weight ratio of hydrocarbons having carbon

numbers from 2 through 4, to methane, to methane is greater than approximately 0.3.

4369-5395. (cancelled)

19